



INSTRUCTION MANUAL

**Sanyo OnePak™
6-Inch Dome Series**

Integrated Camera/Lens/Dome Housing Line



About this manual

Before installing and using this unit, please read this manual carefully. Be sure to keep it available for later reference.

IMPORTANT SAFEGUARDS

1. Read Instructions - All the safety and operating instructions should be read before the unit is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the unit and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug the unit from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Accessories - Do not place this unit on an unstable stand, tripod, bracket, or mount. The unit may fall, causing serious injury to a person and serious damage to the unit. Use only with a stand, tripod, bracket, or mount recommended by the manufacturer or sold with the product. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.



An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

8. Ventilation - Openings in the enclosure, if any, are provided for ventilation, to ensure reliable operation of the unit, and to protect it from overheating. These openings must not be blocked or covered. This unit should not be placed in a built-in installation unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
9. Power Sources - This unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply you plan to use, consult your appliance dealer or local power company. For units intended to operate from battery power or other sources, refer to the operating instructions.
10. Grounding or Polarization - This unit may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
Alternately, this unit may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
11. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
12. Power Lines - An outdoor system should not be located in the vicinity of

overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outdoor system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. U.S.A. models only - refer to the National Electrical Code Article 820 regarding installation of CATV systems.

13. Overloading - Do not overload outlets and extension cords as this can result in a risk of fire or electric shock.
14. Object and Liquid Entry - Never push objects of any kind into this unit through openings, as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the unit.
15. Servicing - Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
16. Damage Requiring Service - Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power supply cord or plug is damaged.
 - b. If liquid has been spilled or objects have fallen into the unit.
 - c. If the unit has been exposed to rain or water.
 - d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
 - e. If the unit has been dropped or the cabinet has been damaged.
 - f. When the unit exhibits a distinct change in performance--this indicates a need for service.
17. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
18. Safety Check - Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
19. Coax Grounding - If an outside cable system is connected to the unit, be sure the cable system is grounded. U.S.A. models only--Section 810 of the National Electrical Code, ANSI/NFPA No.70-1981, provides information with respect to proper grounding of the mount and supporting structure, grounding of the coax to a discharge unit, size of grounding conductors, location of discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
20. Lightning - For added protection of this unit during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the unit due to lightning and power line surges.

SAFETY PRECAUTIONS:

This label may appear on the bottom of the unit due to space limitations.

	CAUTION RISK OF ELECTRIC SHOCK. DO NOT OPEN!	
CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		



The lightning flash with an arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SECURITE: En raison de limitation de place, cette étiquette peut être placée sur le dessous de l'appareil.

	ATTENTION RISQUE D'ÉLECTROCUTION. NE PAS OUVRIR	
DANGER: POUR ÉVITER TOUT RISQUE D'ÉLECTROCUTION, NE PAS OUVRIR LE BOÎTIER. IL N'Y A PAS DE PIÈCES REMPLAÇABLES À L'INTÉRIEUR. POUR TOUTE RÉVISION, S'ADRESSER À UN TECHNICIEN SPÉCIALISÉ.		



L'éclair fléché dans un triangle équilatéral, avertit l'utilisateur de la présence d'une "tension dangereuse" non isolée à l'intérieur de l'appareil et d'une valeur suffisante pour constituer un risque d'électrocution.



Le point d'exclamation contenu dans un triangle équilatéral, avertit l'utilisateur de la présence, dans la documentation qui accompagne l'appareil, de consignes d'utilisation et de maintenance importantes.


SICHERHEITSVORKEHRUNGEN: Aus Platzgründen kann diese Warnung auf der Unterseite des Gerätes angebracht sein.




VORSICHT
 STROMSCHLAGGEFAHR!
 BITTE NICHT ÖFFNEN!




VORSICHT: UM EINEN ELEKTRISCHEN SCHLAG ZU VERMEIDEN, ABDECKUNG NICHT ENTFERNEN. WARTUNGEN ALLER ART QUALIFIZIERTEM PERSONAL ÜBERLASSEN.


 Das Blitzsymbol im gleichseitigen Dreieck soll den Benutzer auf nicht isolierte "Hochspannung" im Gehäuse aufmerksam machen, die eventuell stark genug ist, um einen elektrischen Schlag zu verursachen.

 Das Ausrufezeichen im gleichseitigen Dreieck soll den Benutzer auf wichtige Bedienungs- und Wartungsanleitungen in der dem Gerät beigegebenen Literatur aufmerksam machen.


PRECAUCIONES DE SEGURIDAD: Debido a limitaciones de espacio, esta etiqueta puede aparecer en la parte inferior de la unidad.




PRECAUCION
 RIESGO DE CHOQUE
 ELECTRICO. ¡NO ABRIR!



PRECAUCION: PARA REDUCIR EL RIESGO DE CHOQUE ELÉCTRICO, FAVOR NO ABRIR LA CUBIERTA. ESTE EQUIPO NO CONSTA DE PIEZAS O PARTES QUE REQUIEREN SERVICIO O MANTENIMIENTO. PARA REPARACIONES FAVOR REFERIRSE A UN TÉCNICO CALIFICADO.

 El símbolo representado por un relámpago con punta de flecha dentro de un triángulo equilátero, se muestra con el objetivo de alertar al usuario que existen "voltajes peligrosos" sin aislamiento, dentro de la cubierta de la unidad. Dichos voltajes pueden ser de tal magnitud que constituyen un riesgo de choque eléctrico a personas.

 El símbolo de exclamación dentro de un triángulo equilátero, se muestra con el objetivo de alertar al usuario de que instrucciones de operación y mantenimiento importantes acompañan al equipo.

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1 UNPACKING

Unpack carefully. This equipment should be handled with care.

Check to ensure that the following items are included for the applicable modules ordered:

- OnePak™ Dome Series Unit.
- Hardware Kit.
- Template Tool.

If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper. If any items are missing, contact Sanyo.

The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.

2 SERVICE

If the unit ever needs repair service or parts, the customer should contact Sanyo Technical Support 1-(888)-66SANYO.

3 DESCRIPTION

Integrated Camera/Lens/Dome Housing Line

HIGHLIGHTS:

- Integrated Camera, Varifocal Lens, and 6-Inch In-Ceiling Dome Housing Package
- High Res Color Camera
- 2.8-12 mm Lenses and 5.0-50 mm Lenses
- Innovative 3-pivot Camera Adjustment System for full 360° Pan and 180° Tilt Positioning
- Concealed Camera with Minimal F-stop Loss
- Dome and Flat Viewing Window Versions
- Black or White Trim Ring Versions
- Quick Latch Mount for Sheet Rock and Drop Ceilings
- Durable Aluminum Back Box with Conduit Access
- Perfect for Casino, Business, and Retail Applications
- Plug & Play for Easy Installation

Sanyo OnePak™ 6-Inch Dome Series

ELECTRICAL SPECIFICATIONS:**Imager:** 1/3" Format, Interline Transfer CCD**Video Output:** 1.0V p-p, 75 ohms.**White Balance:** Auto-sensing**Synchronization:** Line Lock**HORIZONTAL RESOLUTION, MINIMUM SCENE ILLUMINATION, BLC, AND S/N:**

Model	Horizontal Resolution	Min Scene Illumination	Back Light Compensation	S/N
VSE-P6361xxxA Series	520 TVL	1.0 Lux @ F1.2	Center Zone	>50 dB
VSE-P6362xxxA Series	520 TVL	1.0 Lux @ F1.2	Center Zone	>50 dB
VSE-P6361xxxMA Series	520 TVL	1.0 Lux @ F1.2	Center Zone	>50 dB
VSE-P6362xxxMA Series	520 TVL	1.0 Lux @ F1.2	Center Zone	>50 dB

LENS TYPE, RANGE, AND APERTURE:

Model	Type	Range	Aperture
VSE-P6361xxxA Series	DC Auto Iris	2.8 to 12.0 mm	F1.4 ~ 360
VSE-P6362xxxA Series	DC Auto Iris	5.0 to 50 mm	F1.4 ~ 185
VSE-P6361xxxMA Series	Manual Iris	2.8 to 12.0 mm	F1.4 ~ Close
VSE-P6362xxxMA Series	Manual Iris	5.0 to 50 mm	F1.4 ~ Close

VOLTAGE AND POWER RATINGS:

Model	Voltage	Power
VSE-P6361xxxA Series	24 V AC, 60 Hz or 12 V DC	4.0 W
VSE-P6362xxxA Series	24 V AC, 60 Hz or 12 V DC	4.0 W
VSE-P6361xxxMA Series	24 V AC, 60 Hz or 12 V DC	4.0 W
VSE-P6362xxxMA Series	24 V AC, 60 Hz or 12 V DC	4.0 W

MECHANICAL SPECIFICATIONS:**Window:** Lightly tinted acrylic.**Camera Mounting:** A two-arm camera support bracket, adjustable forward and backward, is included with each unit.**Construction:** Housing is constructed of aluminum. The lower domed window has a silk-screened window with a lightly tinted viewing area.**Weight (approx.):**

VSE-P6361xxxA Series: 3.8 lbs. (1.7 kg)

VSE-P6362xxxA Series: 3.8 lbs. (1.7 kg)

VSE-P6361xxxMA Series: 3.8 lbs. (1.7 kg)

VSE-P6362xxxMA Series: 3.8 lbs. (1.7 kg)

ELECTROMAGNETIC COMPATIBILITY:**EMC Requirements:** FCC Class A**Safety:** UL, cUL, CE.

4 PARTS LIST - (LOCATE YOUR PARTICULAR MODEL)

HIGH RESOLUTION COLOR/MANUAL IRIS VARI-FOCAL MODELS

Model	Description	Camera	Lens	Window	Color
VSE-P6361DSBMA	480TVL Color Camera, 2.8-12mm MI Vari-focal Lens, 6" Fixed Dome Housing, Smoked, In-Ceiling, Black Trim Ring	VCC-5884	SVCL-CS2812VM	Smoked Dome	Black
VSE-P6361DSWMA	480TVL Color Camera, 2.8-12mm MI Vari-focal Lens, 6" Fixed Dome Housing, Smoked, In-Ceiling, White Trim Ring	VCC-5884	SVCL-CS2812VM	Smoked Dome	White
VSE-P6362DSBMA	480TVL Color Camera, 5.0-50mm MI Vari-focal Lens, 6" Fixed Dome Housing, Smoked, In-Ceiling, Black Trim Ring	VCC-5884	SVCL-CS550VM	Smoked Dome	Black
VSE-P6362DSWMA	480TVL Color Camera, 5.0-50mm MI Vari-focal Lens, 6" Fixed Dome Housing, Smoked, In-Ceiling, White Trim Ring	VCC-5884	SVCL-CS550VM	Smoked Dome	White

HIGH RESOLUTION COLOR/AUTO IRIS VARI-FOCAL MODELS

Model	Description	Camera	Lens	Window	Color
VSE-P6361DSBA	480TVL Color Camera, 2.8-12mm DC AI Vari-focal Lens, 6" Fixed Dome Housing, Smoked, In-Ceiling, Black Trim Ring	VCC-5884	SVCL-CS2812VA	Smoked Dome	Black
VSE-P6361DSWA	480TVL Color Camera, 2.8-12mm DC AI Vari-focal Lens, 6" Fixed Dome Housing, Smoked, In-Ceiling, White Trim Ring	VCC-5884	SVCL-CS2812VA	Smoked Dome	White
VSE-P6362DSBA	480TVL Color Camera, 5.0-50mm DC AI Vari-focal Lens, 6" Fixed Dome Housing, Smoked, In-Ceiling, Black Trim Ring	VCC-5884	SVCL-CS550VA	Smoked Dome	Black
VSE-P6362DSWA	480TVL Color Camera, 5.0-50mm DC AI Vari-focal Lens, 6" Fixed Dome Housing, Smoked, In-Ceiling, White Trim Ring	VCC-5884	SVCL-CS550VA	Smoked Dome	White

CALL FACTORY FOR OTHER CONFIGURATIONS.

5 INSTALLATION



Attention: Installation should be performed by qualified service personnel only, in accordance with the National Electrical Code or applicable local codes. Refer to applicable installation section.

5.1 Suspended Ceiling Mounting



CAUTION: These units must be properly and securely mounted to a supporting structure capable of sustaining the unit weight. Use care when selecting mounting hardware (not supplied) for installation. The mounting surface and unit's weight should be carefully considered.

Mount the unit in a suspended ceiling grid using the existing ceiling tile as follows:

1. Remove tile at desired location.
2. Cut a 172 mm (6.75-inch) diameter hole in the center of the tile. Use two pencils (or a pencil and a nail) with the template tool provided to draw the circle.
3. Connecting Low Voltage Power & Video:

NOTE: Power and video can be connected before or after unit is mounted into the ceiling.

- a. Prepare the low voltage wires by stripping 9-11 mm (0.39-inch) from each wire. The push-wire connector is designed to accommodate AWG 20-16 wire.
 - b. Connect the line and neutral wires.
 - c. Route and connect video cable to BNC connector.
4. Install box into pre-cut tile. Position the round section of the box in the direction that the camera will be aimed (see **Figure 1**).

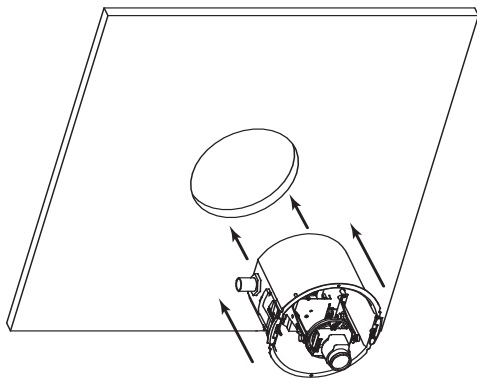


Figure 1

5. Pull the drawstring tight (away from the screw) to clamp down on the ceiling, then lock the drawstring into the groove. Figure 2 shows the housing clamped to the ceiling. **DO NOT CUT DRAWSTRING.** Push the excess string through the hole provided. As an option, a screwdriver may be used to turn screws and lock ceiling clamps in place.

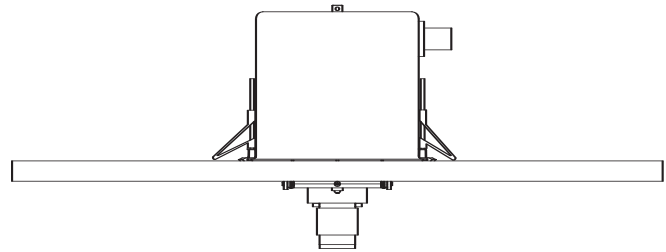


Figure 2

6. Reinstall tile in grid.
7. Fasten support wire (not provided) to structural framing, masonry, or concrete above the unit. Connect the other end to the eyebolt in the top of the box. Draw wire tight and twist securely.
8. Adjust camera for proper viewing angle.
9. Assemble dome in the trim ring by lining the slots in the dome with tabs in the trim ring and pushing the sides of the dome under the tab. Turn the dome to secure it (see **Figure 3**).
10. Attach the dome/trim ring by lining up the dots on the box and the trim ring. Push on one side of the trim ring near the flat section of the box, then push on the other side of the trim ring until it snaps into place. Listen for a distinct click to ensure ring is securely in place (see **Figure 3**).

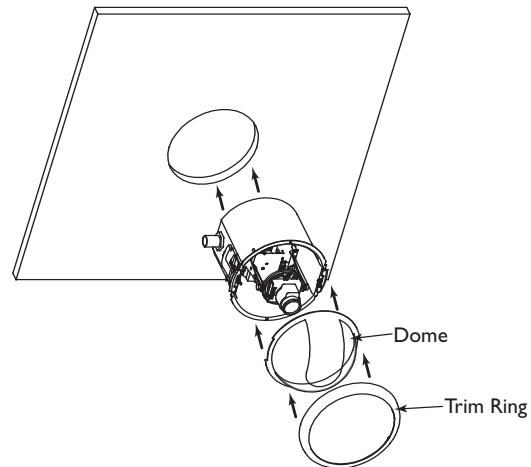


Figure 3

11. Adjust the dome so that the viewing slot is in the proper position.

5.2 Hard Ceiling Mounting

Mount the unit in a hard ceiling, e.g. dry wall etc. as follows. Be sure the ceiling will support the weight of the housing and camera.

(continued on back cover)

SANYO INDUSTRIAL VIDEO
HOUSINGS OR INTEGRATED CAMERA/LENS/HOUSING PACKAGES

OBLIGATIONS

In order to obtain warranty service, the product must be delivered to and picked up from an Authorized Sanyo Service Center at the user's expense, unless specifically stated otherwise in this warranty. The names and addresses of Authorized Sanyo Service Centers may be obtained by calling the toll-free number listed below.

For product operation, authorized service center referral, service assistance or problem resolution, call

CUSTOMER INFORMATION 1- 800- 421- 5013

Weekdays 8: 30 AM – 5: 00 PM Pacific Time

For accessories and/ or parts, call

PARTS ORDER INFORMATION 1- 800- 726- 9662

Weekdays 8: 30 AM – 5: 00 PM Pacific Time

THIS WARRANTY IS VALID ONLY ON SANYO PRODUCTS PURCHASED OR RENTED IN THE UNITED STATES OF AMERICA, EXCLUDING ALL U.S. TERRITORIES AND PROTECTORATES. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL RETAIL PURCHASER OR END USER. THE ORIGINAL DATED BILL OF SALE, SALES SLIP OR RENTAL AGREEMENT MUST BE SUBMITTED TO THE AUTHORIZED SANYO SERVICE CENTER AT THE TIME WARRANTY SERVICE IS REQUESTED.

Subject to the OBLIGATIONS above and EXCLUSIONS below, SANYO Fisher Company warrants this SANYO product against defects in materials and workmanship for the periods specified below. SFC will repair or replace (at its option) the product or any of its parts which fail to conform to this warranty. The warranty period commences on the date the product was first purchased or rented at retail.

LABOR	PARTS
3 YEARS	3 YEARS

EXCLUSIONS

This warranty does not cover (A) the adjustment of customer- operated controls as explained in the appropriate model's instruction manual, or (B) the repair of any product whose serial number has been altered, defaced or removed.

This warranty shall not apply to the cabinet or cosmetic parts, batteries or routine maintenance.

This warranty does not apply to uncrating, setup, installation, removal of the product for repair or reinstallation of the product after repair.

This warranty does not apply to repairs or replacements necessitated by any cause beyond the control of SFC including, but not limited to, any malfunction, defect or failure caused by or resulting from unauthorized service or parts, improper maintenance, operation contrary to furnished instructions, shipping or transit accidents, modification or repair by the user, abuse, misuse, neglect, accident, incorrect power line voltage, fire, flood or other Acts of God, or normal wear and tear.

The foregoing is in lieu of all other express warranties and SFC does not assume or authorize any party to assume for it any other obligation or liability.

SFC DISCLAIMS ALL OTHER WARRANTIES EXPRESS OR IMPLIED, WITH REGARD TO THIS PRODUCT (INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS). IN NO EVENT SHALL SFC BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE OWNERSHIP OR USE OF THIS PRODUCT OR FOR ANY DELAY IN THE PERFORMANCE OF ITS OBLIGATIONS UNDER THIS WARRANTY DUE TO CAUSES BEYOND ITS CONTROL. SFC'S LIABILITY FOR ANY AND ALL LOSSES AND DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER, ARISING OUT OF OR IN CONNECTION WITH THE SALE, USE OR OWNERSHIP OF THIS PRODUCT INCLUDING WARRANTOR'S NEGLIGENCE, OR ALLEGED DAMAGED OR DEFECTIVE GOODS, WHETHER SUCH DEFECTS ARE DISCOVERABLE OR LATENT, SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT.

ATTENTION

For your protection in the event of theft or loss of this product, please fill in the information below for your own personal records.

Model No _____ **Serial No.** _____

(Located on back or bottom side of unit.)

Date of Purchase _____ **Purchase Price** _____

Where Purchased _____

5.2 Hard Ceiling Mounting

Mount the unit in a hard ceiling, e.g. dry wall etc. as follows. Be sure the ceiling will support the weight of the housing and camera.

1. Cut a 172 mm (6.75-inch) diameter hole in the ceiling. Use two pencils (or a pencil and a nail) with the template tool provided to draw the circle.
2. Run electrical cabling to housing and make proper connections (see Section 4.1 for details on power connections).
3. Install box into pre-cut hole. Position the round section of the box in the direction that the camera will be aimed (see **Figure 3**).
4. Pull the drawstring tight (away from the screw) to clamp down on the ceiling, then lock the drawstring into the groove. **DO NOT CUT DRAWSTRING.** Push the excess string through the hole provided. As an option, a screwdriver may be used to turn screws and lock ceiling clamps in place.
5. Adjust camera for proper viewing angle.
6. Assemble dome and trim ring as instructed in suspended ceiling mounting section.

6 CAMERA/LENS SETTINGS

The camera and lens come factory configured and ready for operation. If custom setup is required, refer to the camera Installation Instructions included in the Instruction Manual Packet.



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